



RF EXPOSURE Test Report

Report No.: MTi210416004-05E2

Date of issue: May 08, 2021

Applicant: Anker Innovations Limited

Product name: Wireless Charger

Model(s): A2583

FCC ID: 2AOKB-A2583

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.com>



Instructions

1. The report shall not be partially reproduced without the written consent of the laboratory;
2. The test results of this report are only responsible for the samples submitted;
3. This report is invalid without the seal and signature of the laboratory;
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5. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.



TEST RESULT CERTIFICATION

Applicant's name	Anker Innovations Limited
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Manufacturer's Name	Anker Innovations Limited
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Factory 1's Name	HU NAN GIANTSUN POWER ELECTRONICS CO., LTD
Address	Building1, 15, 16 , 17, Taiwan Industrial Zone, Nonferrous Metals Industrial park, Chenzhou, Hunan, China
Factory 2's Name	GIANTSUN POWER ELECTRONICS (VIETNAM) CO., LTD.
Address	Factory No. 6, Lot CN8, Thach That - Quoc Oai Industrial Park, Phung Xa Commune, Thach That District, Hanoi City, Vietnam

Product description

Product name	Wireless Charger
Trademark	ANKER
Model Name	A2583
Serial Model	N/A
Standards	FCC CFR 47 PART 1 , 1.1310
Test procedure	KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01

Date of Test

Date (s) of performance of tests	Apr. 02, 2021 ~ Apr. 30, 2021
Test Result	Pass

This device described above has been tested by Shenzhen Microtest Co., Ltd. and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

Testing Engineer

:

Danny Xu

(Danny Xu)

Technical Manager

:

Leo Su

(Leo Su)

Authorized Signatory

:

Tom Xue

(Tom Xue)



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1 General Information

1.1 Description of EUT

Product name:	Wireless Charger
Brand name:	ANKER
Model name:	A2583
Series model:	N/A
Deference in serial model:	N/A
Operation frequency:	115–205 kHz
Operational mode:	Wireless charging
Modulation type:	ASK
Antenna type:	Coil Antenna
Power source:	DC 15V from adapter AC 120V/60Hz
Input:	15V/3A
Battery:	N/A
Adapter information:	Model: A2664 Input: AC 100-240V 1.87A 50/60Hz Output: DC 5V 3A / DC 9V 3A / DC 15V 3A / DC 20V 2.25A(45W MAX) PPS: DC 3.3V-16.0V 3A MAX(45W MAX), DC 3.3V-21V 2.25A MAX(45W MAX)

1.2 Ancillary equipment list

Equipment	Model	S/N	Manufacturer
AirPods	/	/	Apple
Adapter	A2664	/	Anker Innovations Limited

1.3 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, $U=2 \times U_c(y)$

Radiated emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB



Temperature	±1 degree
Humidity	± 5 %



2 Testing site

Test Site	Shenzhen Microtest Co., Ltd
Test Site Location	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinghe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China.
FCC Registration No.:	448573

Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinghe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China.



3 List of test equipment

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
MTI-E115	Electric and Magnetic Field Probe - Analyzer	Narda Safety Test Solutions GmbH	EHP-200A	/	2020/11/12	2021/11/11



4 Test Results

4.4 Maximum permissible exposure

4.4.1 Limit

Frequency range(MHz)	Electric field strength(V/m)	Magnetic field strength(A/m)	Power density(mW/cm ²)	Averaging time(minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0 6	6
300-1500			f/300	6
1500-100000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100000			1	30

f = frequency in MHz * = Plane-wave equivalent power density

4.4.2 Test Procedures

E and H-field measurements should be made with the center of the probe at a distance of 15 cm surrounding the device and 20 cm above the top surface of the primary/client pair.

These measurements should be repeated for three different client battery levels, 1%, 50%, and 99%.

Record the test results.

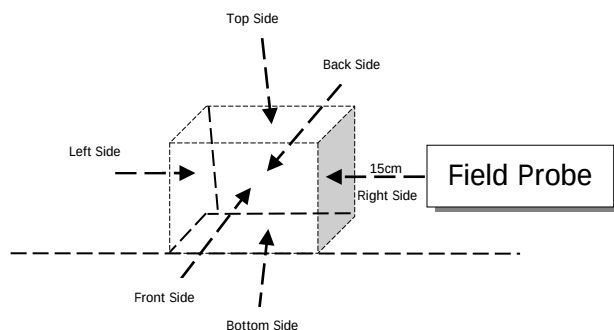
KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01:

- (1) Power transfer frequency is less than 1 MHz
- (2) Output power from each primary coil is less than or equal to 15 watts.
- (3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.
- (4) Client device is placed directly in contact with the transmitter.
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
- (6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

Note: The device is in compliance with KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01 6 conditions.



4.4.3 Test Setup



4.4.4 Test Result

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E – field(V/m)	H–field(A/m)
<1%	Top	20	0.8930	0.0173
<1%	Bottom	15	0.8935	0.0181
<1%	Left	15	0.8936	0.0178
<1%	Right	15	0.8939	0.0195
<1%	Front	15	0.8935	0.0186
<1%	Back	15	0.8932	0.0184
Limit			614	1.63
Margin Limit (%)			0.145	1.061

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E – field(V/m)	H–field(A/m)
<50%	Top	20	0.8924	0.0171
<50%	Bottom	15	0.8932	0.0183
<50%	Left	15	0.8934	0.0174
<50%	Right	15	0.8935	0.0192
<50%	Front	15	0.8931	0.0181
<50%	Back	15	0.8936	0.0185
Limit			614	1.63
Margin Limit (%)			0.145	1.049



Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E – field(V/m)	H–field(A/m)
<99%	Top	20	0.8931	0.0170
<99%	Bottom	15	0.8935	0.0186
<99%	Left	15	0.8936	0.0179
<99%	Right	15	0.8939	0.0191
<99%	Front	15	0.8935	0.0176
<99%	Back	15	0.8932	0.0181
Limit			614	1.63
Margin Limit (%)			0.145	1.043

----END OF REPORT----